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ABSTRACT

SUB D2

The invention is related to a method for the joining of bodies (41, 50, 51, 65, 66) by means of the thermal melting down of a joining element (1, 20, 30, 52, 67, 75, 80). The joining element (1, 20, 30, 52, 67, 75, 80) by means of a directed force (F) acts on a surface (4, 40, 59) of one of the bodies (41, 50, 51, 65, 66) and penetrates it as a result of the directed force (F). In penetrated condition, a mechanical excitation is generated in such a manner, that during the further penetration of the joining element (1, 20, 30, 52, 67, 75, 80) into the one body (41, 50, 51, 65, 66), the advance is maintained through the directed force (F) and the melting down is maintained through the mechanical excitation and that with this molten material is hydraulically displaced into the bodies (41, 50, 51, 65, 66).

(Figure 1)

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